Pine Environmental Services LLC

92 North Main St, Building 20 Windsor, NJ 08561 Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 17598
Description YSI 556

Calibrated 11/23/2016 12:33:13PM

Test Instruments Used During the Calibration					(As Of Cal E	ntry Date)
Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/	Next Cal Date / Expiration Date
NJ COND 1413: 6GH058	1413 conductivity standard	AquaPhoenix Scientific	1413	6GH058	8/16/2016	8/31/2017
NJ ORP 240MV LOT: 9674	ORP solution 240mv	Hanna	240Mv	9674	8/16/2016	1/31/2021
NJ PH 10: 6GG109	BUFFER, PH10 BLUE	AquaPhoenix Scientific	PH10	6GG109	8/16/2016	7/31/2018
NJ PH 4: 6GG264	BUFFER, PH4 RED	AquaPhoenix Scientific	PH4	6GG264	8/16/2016	7/31/2018
NJ PH 7: 6GE833	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	PH7	6GE833	8/16/2016	5/31/2018

Notes about this calibration

Calibration Result Calibration Successful Who Calibrated Sigyan Congo

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment Please call 800-301-9663 for Technical Assistance



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Instrument ID 17598

Description YSI 556

Calibrated 11/23/2016 12:33:13PM

Manufacturer YSI

Model Number 556

Serial Number/Lot 10M100151

Number

Nom In Val / In Val

100.00 / 100.00

In Type

%

Out Val

100.00

Location New Jersey

State Certified

Status Pass

Temp °C 22.2

Humidity % 23

Departme	ent							
		Calibi	ration Specific	ations				
	oup# 1 Name PH			Range Acc % Reading Acc %				
300 AC 200 AC 20	Accy Pct of Re	eading		Plus/Minus				
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As		Dev%	Pass/Fail
7.00 / 7.00	PH	7.00	PH	6.99	7.00	T DTTB.	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	3.95	4.00		0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.03	10.00		0.00%	Pass
Gro	oup# 2		and the control of th	Range Acc %	0.0000			
	Name Conduct	ivity		Reading Acc %	3.0000	127	d sa:	
Stated	Accy Pct of Re	eading		Plus/Minus	0.000			
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	tan	Dev%	Pass/Fai
1.413 / 1.413	ms/cm	1.413	ms/cm	1.421	1.413	The set	0.00%	Pass
Gro	oup # 3			Range Acc %	0.0000			
	Name Redox (0	ORP)		Reading Acc %	3.0000			
Stated	Accy Pct of Re	eading		Plus/Minus	0.00			
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As		Dev%	Pass/Fai
240.00 / 240.00	mv	240.00	mv	237.00	240.00		0.00%	Pass
Gro	oup# 4		Account April 100 CT A ST CT	Range Acc %	0.0000			
	Name Disolved	l Oxygen Span		Reading Acc %	3.0000			
	Accy Pct of Re	R B 181		Plus/Minus	0.00			

Out Type

%

Fnd As

101.00

Lft As

100.00

Dev%

0.00%

Pass/Fail Pass

INSTRUMENT QC/ PACKING LIST

Description	YSI 556 sonde and display Barometer equipped: ☐ Yes
Sonde ID#	16633 17598
Display ID#	16633 17598
Date Calibrated	11-43- 2016



Standard Items	Prepared	QC check	Received by customer	Returned to Pine
YSI 556 sonde w/m cable and case				
YSI 556 Display	0			**************************************
Manual		-		-
Quick reference card	0			
Probe Guard		-		
Calibration cup w/sponge				
Flow cell	1			
Cell adapter for older style cell (if applicable)	7			
2 of each barb size (1/4, 3/8, 1/2)				
DO ₂ probe reconditioning kit	-	¥4 <u>W</u> 51,		8 m:
4 C batteries		-		
556 Communications cable				
YSI Ecowatch Software	+			
Calibration kit, pH (4,7,10), conductivity, and ORP	4		<u></u>	
ProCal Calibration Sheet	<u>C</u>			-
Prepared by: QC checked by: Date:	shipment, please fill out	the "Received by custome	ed to operate the unit was sent and re r" column. Call Pine within 24 hours of malfunctioning. Thank you for choos	of receiving the

Pine Environmental Services, LLC.

92 North Main St, Building 20 Windsor, NJ 08561 Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 10264 Description YSI 6920

Calibrated 11/17/2016 11:49:41AM

Manufacturer YSI

Model Number 6920

Serial Number/Lot 06J1742AE

Number

Location New Jersey

Department

State Certified

Status Pass

Temp °C 21.8

Humidity % 40

Calibration Specifications

999		Callo	ration Specific	ations			
1	oup # 1			Range Acc %			
	Name PH			Reading Acc %			
Stated.	Accy Pct of Ro	eading		Plus/Minus	0.00		
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
7.00 / 7.00	PH	7.00	PH	6.95	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	3.97	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	9.93	10.00	0.00%	Pass
Gro	oup # 2			Range Acc %	0.0000		
Group N	Name Turbidity	y		Reading Acc %	3.0000	3 (4)	
Stated.	Accy Pct of Re	eading		Plus/Minus	0.00		
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
0.00 / 0.00	NTU	0.00	NTU	0.00	0.00	0.00%	Pass
126.00 / 126.00	NTU	126.00	NTU	123.35	126.00	0.00%	Pass
Gro	oup # 3			Range Acc %	0.0000		
Group N	Name Conduct	ivity		Reading Acc %	3.0000		
Stated.	Accy Pct of Ro	eading		Plus/Minus	0.000		
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
1.413 / 1.413	ms/cm	1.413	ms/cm	1.422	1.413	0.00%	Pass
Gro	oup # 4			Range Acc %	0.0000		
Group N	Name Redox (ORP)		Reading Acc %	3.0000		
Stated.	Accy Pct of Ro	eading		Plus/Minus	0.00		
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
240.00 / 240.00	mv	240.00	mv	234.50	240.00	0.00%	Pass
Gro	oup # 5	700	The second secon	Range Acc %	0.0000		
Group N	Name Disolved	l Oxygen Span		Reading Acc %	3.0000		
Stated.	Accy Pct of Re	eading		Plus/Minus	0.00		
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail



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Pine Environmental Services, Inc.

Instrument ID 10264

Description YSI 6920

Calibrated 11/17/2016 11:49:41AM

Gro	oup # 5			Range Acc	% 0.0000		
Group N	Name Disolved	l Oxygen Span		Reading Acc	% 3.0000		
Stated .	Accy Pct of Re	eading		Plus/Min	us 0.00		
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.00 / 100.00	%	100.00	%	98.96	100.00	0.00%	Pass

Test Instruments Used During the Calibration						(As Of Cal Entry Date)		
Test Standard ID	Description	<u>Manufacturer</u>	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date		
NJ COND 1413: 6GH058	1413 conductivity standard	AquaPhoenix Scientific	1413	6GH058	8/16/2016	8/31/2017		
NJ ORP 240MV LOT: 9674	ORP solution 240mv	Hanna	240Mv	9674	8/16/2016	1/31/2021		
NJ PH 10: 6GG109	BUFFER, PH10 BLUE	AquaPhoenix Scientific	PH10	6GG109	8/16/2016	7/31/2018		
NJ PH 4: 6GG264	BUFFER, PH4 RED	AquaPhoenix Scientific	PH4	6GG264	8/16/2016	7/31/2018		
NJ PH 7: 6GE833	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	PH7	6GE833	8/16/2016	5/31/2018		
NJ TURB 0.0 NTU	0.0 NTU TURBIDITY SOLUTION	GFS	0.0 NTU 8483	C686663	5/12/2016	4/30/2017		
LOT:C686663 NJ TURB 126 C688679	126 NTU STANDARD	GFS	126 NTU	c688679	7/18/2016	5/31/2017		

Notes about this calibration

Calibration Result Calibration Successful

Who Calibrated Amadu Bah

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INSTRUMENT QC/ PACKING LIST

Description	YSI 6820 and 650 MDS display
Sonde ID#	10264
Display ID#	15956
Date Calibrated	11/17/16

0



Standard Items	Prepared	QC check	Received by customer	Returned to Pine
YSI 6820 sonde w/ cable and case				V-
YSI 650 MDS Display				1
Manual		-	-	3 -
Quick reference card				02
Stand (base, clamp, and rod)		-		8
8.5" Probe Guard w/ black bottom				
Calibration cup w/ black bottom and sponge		-		in the second
Flow cell (long, black bottom)	$\underline{\hspace{1cm}}$		-	E-particular de la constantina della constantina
 Cell adapter for older style cell (if applicable) 	4			
2 of each barb size (1/4, 3/8, 1/2)		 ;		-
DO ₂ probe reconditioning kit				
(4) C batteries				:: :
6-series Communications cable				S
YSI Ecowatch Software				
Calibration kit, pH (4,7,10), conductivity, turb (0 and 126 NTU), and ORP.	/			
ProCal calibration sheet		1 <u>-11</u>		

Prepared by:

QC checked by:

Date:

This packing list is to ensure that every item needed to operate the unit was sent and received. Upon receiving a shipment, please fill out the "Received by customer" column. Call Pine within 24 hours of receiving the equipment if any pieces are missing, damaged, or malfunctioning. Thank you for choosing Pine Environmental Services LLC

Certificate of Calibration

The following instrument

Model: PGM-7320, MiniRAE 3000

Serial No: 592-911260

has been calibrated using gases that are

traceable to N.I.S.T. standards.

After calibration, the instrument was rechecked with the calibration gases and given the results shown on the table.

Sensor	Test Gas Concentration	Gas Lot #	Reading
PID	100 ppm Isobutylene (±2%)	401-154445	100
PID	1000 ppm Isobutylene (±2%)	112568	Pass
PID	5000 ppm Isobutylene (±2%)	437653	Pass

Calibration date: 10-13-2016

Calibrated by: Louis Le Conis Le

RAE Systems, Inc.

